

W. B. Kimball,

Cook Stove.

No. 290.

Patented July 19, 1837.

Fig. 3.

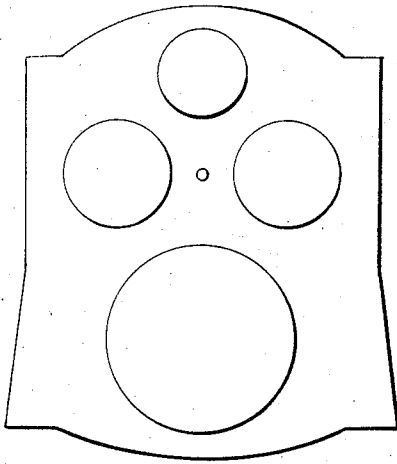


Fig. 2.

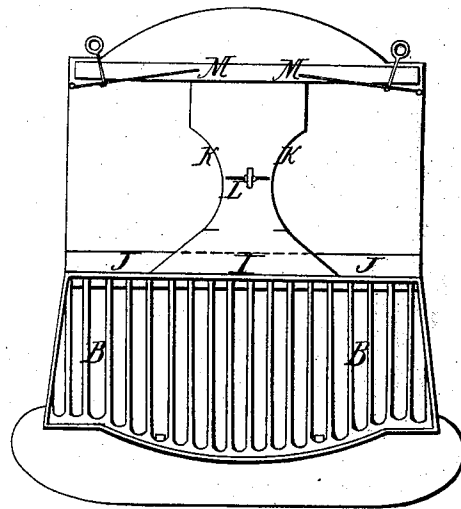


Fig. 4.

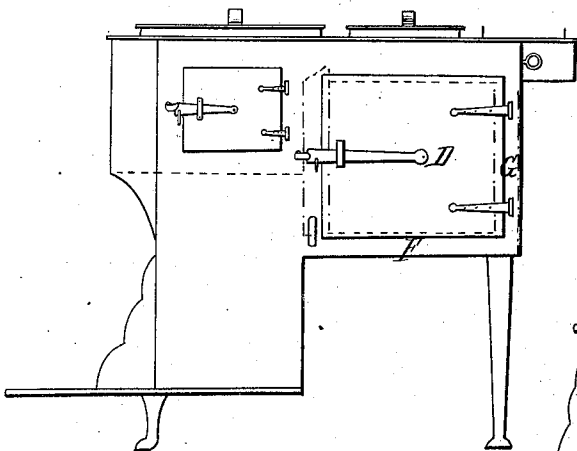
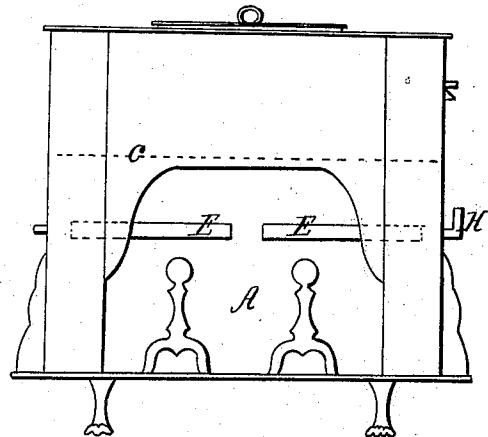


Fig. 1.



UNITED STATES PATENT OFFICE.

WM. B. KIMBALL, OF PETERBORO, NEW HAMPSHIRE.

STOVE FOR COOKING AND HEATING.

Specification of Letters Patent No. 290, dated July 19, 1837.

To all whom it may concern:

Be it known that I, WILLIAM B. KIMBALL, of Peterboro, in the county of Hillsboro and State of New Hampshire, have invented
5 an Improved Stove for Heating and Cooking; and I do hereby declare that the following is a full and exact description thereof.

Figure 1 is a front view of the stove, the
10 lower part of which, A, is in the form of the ordinary open, or Franklin, stove; and in this the fuel employed may be wood, the inclosed part above this constitutes a close stove, having grate bars at its bottom nearly
15 even with the upper part of the opening of the open stove, or about the place of the dotted line C.

Fig. 2, is a top view of the stove, the upper plate (Fig. 3,) which receives the cooking utensils, being removed to exhibit the interior arrangements. B, B, Fig. 2, are the grate bars which stand immediately over the open fire place. I usually make a door
20 at one end of this upper fire-place, or chamber of combustion, for the supply of fuel, and the management of the fire. In this compartment either wood, or coal, may be burnt at pleasure.

Fig. 4, is a side view of the stove, D being an oven which extends across the whole width of the stove, and has flues on each side of it, formed by double plates, situated as shown by the red lines.

In the back plate of the open fire place, there are slots, or openings, E, E, which lead directly into the flues F, and G, at the bottom and back of the oven; H, is the handle of dampers, or shutters, by means of which these slots may be closed when desired.
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I, in Fig. 2, is the upper termination of the flue at the front of the oven, which may extend up to within an inch or two of the top plate, Fig. 3. This flue is closed in the
45 part I, but open at J, J, allowing the heated air to pass into it, and thence under, and up behind, the oven, in its way to the stove pipe.

K, K, are partitions which reach from the top of the oven to the upper plate, and aid
50 in determining the course of the draft.

L is a valve, or damper, which closes the passage between these partitions to the stove-pipe.

M, M, are shutters which may be opened, 55 or closed, at pleasure, allowing, or refusing a passage, to the draft.

When the fire is made in the open fire place, the openings E, E, at its back allows the heated air to pass under, and up the back
60 of, the oven, the valves L, and the shutters M, M, being closed. If the openings E, E, are closed, and the valves and shutters at the top closed also, the heated air will then ascend, pass down the openings J, J, in front of,
65 under, and at the back of, the oven. If the valve L, be opened, and the shutters M, M closed, there will be a direct passage to the smoke-pipe, and if on the contrary L, be closed, and M, M opened, the passage will
70 be through the spaces N, N, and under the boilers in the part of the top plate which covers them.

When a fire is made in the upper, or close, stove, the openings E, E, are to be closed, 75 and the mode of managing the valve and shutters between the two upper plates will be obvious, from their nature, and from the foregoing observations.

What I claim as my invention and wish
80 to secure by Letters Patent, is—

The particular manner in which I have combined a double stove, and the flues, or passages, valves, dampers, or shutters, with each other, as herein described. I do not
85 claim either, or any, of these parts taken individually, or in the connection of one individual part with another; but I do claim that combination and arrangement of the respective parts with each other, as a whole,
90 so as to constitute a stove substantially the same with that herein set forth.

WILLIAM B. KIMBALL.

Witnesses:

PAUL BROWN,
DAVID SMILEY, Sr.